Lory Kerioe Table									
Poly Ketide Table	Module	Starting Material	AT	KS	KR	DH	ER	ACP	TE
ount # of units (every 2 carbons)	0		AT.					ACP,	
	1		AT,	KS,				ACP,	
0° 1° 2° 3 4 5	2		ATz	KS2				ACP2	
	3		AT ₃	K S ₃				ACP3	
ach ketide unit gets an AT 3 ACP	Ч		A Tu	KS4				ACPY	
very module except O gets KS	5		ATs	K S ₅				ACPS	
tarting material (Module O)	Module	Starting Material	AT	KS	KR	DH	ER	ACP	TE
1 (1)	0	Acetyl CoA	Ат.					ACP.	
here is Acetyl CoA	I		AT,	Ksı				ACP,	
	2		AT2	KS2				ACP.	
I CAN IS	3		A T ₃	K S3				ACP3	
yl LoA is	Ч		A T4	KS.				ACPy	
odole O here	5		ATs	K S _s				ACPs	
sits without Me sticking off are	Module	Starting Material	AT	KS	KR	DH	ER	ACP	TE
alonyl CoA	0	Acetyl CoA	AT.					ACP.	
O O O O O O O O O O O O O O O O O O O	1	Malonyl CoA	AT,	Ksı				ACP,	
O (Ö OH Ö O	2	Me Malonyl GA	AT2	KS1				ACP2	
Malonyl Col	3	Malonal LOA	A T ₃	K S3				ACP3	
ts with Me sticking off are	ч	Malonal LoA	A T4	KS.				ACPY	
e Malonyl Con	5	Malengl LOA	AT _s	K S _s				ALPS	
O OH OH									
O O ON B Module 2 is Me Malegy Lon									
Module 2:5 Me Malanul Lon	Module	Starting Material	AT	KS	KR	DH	ER	ACP	TE
Module 2:5 Me Malanul Lon	Module O	Starting Material	AT AT.	кѕ	KR	DH	ER	ACP.	TE
Module 2 is Me Malanyl Lan	0			KS KS ₁	KR	DH	ER	H	TE
A Me Malay Lon	0 1 2	Acetyl CoA	AT. AT.	KS1 KS2		DH	ER	ACP, ACP, ACP,	TE
And Malengy Len The Malengy Len OH FOLLOWEND MODULE has KR	0	Acetyl CoA Malonyl CoA	AT.	KSı		DH	ER	ACP,	TE
f Unit has cy Followene module has KR	0 1 2	Acetyl CoA Malonyl CoA Me Malonyl CoA	AT. AT.	KS1 KS2 KS3		DH	ER	ACP, ACP, ACP,	TE
f Unit has c , FOLLOWING module has KR	0 1 2 3	Acetyl CoA Malonyl CoA Me Malonyl CoA Malonyl CoA	AT. AT. AT. AT.	K S 1 K S 2 K S 3		DH	ER	ACPo ACPo ACPo ACPo ACPo	TE
F Unit has c , FOLLOWING MODULE has KR	0 1 2 3 4 5	Acetyl CoA Malonyl CoA Mc Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA	AT. AT. AT. AT. AT. AT.	KS1 KS2 KS3 KS4 KS5	KR ₃			ACP ₀ ACP ₁ ACP ₃ ACP ₃ ACP ₄ ACP ₅	
Malangle 2 is Me Malangle LA OH OH OH Unit has C, Following module has KR O OH Unit 2 has OH, so Module 3 has KR	0 1 2 3 4 5	Acetyl CoA Malonyl CoA Mc Malonyl CoA Mc Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA	AT. AT. AT. AT. AT. AT. AT.	KS1 KS2 KS3				ACP ₀ ACP ₁ ACP ₃ ACP ₃ ACP ₄ ACP ₄ ACP ₅	TE
Me Malangl LA f Unit has C , Following module has KR Unit has C , Following module has KR Unit 2 has OH, SO Module 3 has KR	0 1 2 3 4 5	Acetyl Con Malonyl Con Mc Malonyl Con Molonyl Con Malonyl Con Malonyl Con Malonyl Con Starting Material Acetyl Con	AT. AT. AT. AT. AT. AT. AT. AT. AT.	KS1 KS2 KS3 KS4 KS5	KR ₃			ACP. ACP. ACP. ACP. ACP. ACP. ACP. ACP.	
Module 2 is Me Malagal Loh OH OH OH Unit has c , FOLLOWING module has KR ON OH So Module 3 has KR	0 1 2 3 4 5	Acetyl CoA Malonyl CoA Mc Malonyl CoA Mc Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Starting Material Acetyl CoA Malonyl CoA	AT. AT. AT. AT. AT. AT. AT. AT. AT.	KS1 KS2 KS4 KS5 KS	KR ₃			ACP. ACP. ACP. ACP. ACP. ACP. ACP. ACP.	
Me Malangl LAA f Unit has C , FOLLOWING module has KR O OH OH O OH So Module 3 has KR	O	Acetyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Starting Material Acetyl CoA Malonyl CoA Malonyl CoA	AT.	KS1 KS2 KS3 KS4 KS5	KR₃			ACP, ACP, ACP, ACP, ACP, ACP, ACP, ACP,	
Me Malangl LAA f Unit has C , FOLLOWING module has KR O OH OH O OH So Module 3 has KR	O	Acetyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Starting Material Acetyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA	AT.	KS1 KS2 KS3 KS4 KS5 KS1 KS1	KR ₃	DH		ACP, ACP, ACP, ACP, ACP, ACP, ACP, ACP,	
F Unit has c) Following module has KR OH OH Unit 2 has OH, SO Module 3 has KR F Unit has (double bond connecting to ment Unit) Following module has KR and DH Unit 3 has KR	O	Acetyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Starting Material Acetyl CoA Malonyl CoA	AT.	KS1 KS2 KS3 KS4 KS5 KS1 KS1 KS2 KS3	KR₃			ACP, ACP, ACP, ACP, ACP, ACP, ACP, ACP,	
F unit has c, Following module has KR OH Vait 2 has OH, so Module 3 has KR Funit has (Jouble boad connecting to next vait), Following module has KR and DH	O	Acetyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Starting Material Acetyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA	AT.	KS1 KS2 KS3 KS4 KS5 KS1 KS1	KR ₃	DH		ACP, ACP, ACP, ACP, ACP, ACP, ACP, ACP,	
F Unit has C FOLLOWING module has KR OH Unit 2 has OH, SO Module 3 has KR FOLLOWING module has KR and DH Unit 3 has Following to has KR and DH Unit 3 has Following to has KR and DH SO Module 4 has KR, DH	0 1 2 3 4 5 Module 0 1 2 3 4 5	Acetyl CoA Malonyl CoA	AT.	K51 K52 K53 K54 K55 K5 K51 K51 K52 K53 K54	KR3 KR4	DH ₄	ER	ACP, ACP, ACP, ACP, ACP, ACP, ACP, ACP,	TE
And Maley Lead The Maley Lead OH OH Unit has c , Following module has KR To oh Unit has (double boad connecting to ment unit), Following module has KR and DH Unit a has w so Module 4 has KR, DH	O	Acetyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Malonyl CoA Starting Material Acetyl CoA Malonyl CoA	AT.	KS1 KS2 KS3 KS4 KS5 KS1 KS1 KS2 KS3	KR ₃	DH	ER	ACP, ACP, ACP, ACP, ACP, ACP, ACP, ACP,	
And Malegy Lead The Malegy Lead OH Unit has c , Followers module has KR OH Unit has OH, so Module 3 has KR f unit has (double boad connecting to meet unit), Followers module has KR and DH Unit a has w so Module 4 has KR, DH	O	Acetyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Starting Material Acetyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA	AT.	K51 K52 K53 K54 K55 K5 K51 K51 K52 K53 K54	KR3 KR4	DH ₄	ER	ACP, ACP, ACP, ACP, ACP, ACP, ACP, ACP,	TE
Manual Land The Malays Land OH Unit has c, Followant module has KR O OH Unit 2 has OH, SO Module 3 has KR f unit has (double bond connecting to heat unit), Followant module has KR and DH Unit 3 has SO Module 4 has KR, DH	O	Acetyl CoA Malonyl CoA	AT.	KS1 KS2 KS3 KS4 KS5 KS1 KS1 KS2 KS4 KS4 KS5	KR KR ₃	DH ₄	ER	ACP, ACP, ACP, ACP, ACP, ACP, ACP, ACP,	TE
A Model 2 is Me Malegy LoA OH Unit has c , Followant module has KR O OH Unit 2 has OH, SO Module 3 has KR f unit has (double bend connecting to meat unit), Followant module has KR and DH Unit 3 has so Module 4 has KR, DH f unit has nothing, Followant module has KR, DH, ER O OH OH OH OH OF OH OH OF OF OH OF OF	O	Acetyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Starting Material Acetyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA Molonyl CoA	AT.	KS1 KS2 KS3 KS4 KS5 KS1 KS1 KS2 KS4 KS5 KS4 KS5 KS6 KS6 KS6	KR KR KR KR KR	DH ₄	ER	ACP, ACP, ACP, ACP, ACP, ACP, ACP, ACP,	TE
Me Malegy Le A If Unit has C, Followand module has KR OH Unit 2 has OH, so Module 3 has KR f Unit has (Jouble boad connecting to next unit), Followand module has KR and DH Unit 3 has so Module 4 has KR, DH f Unit has nothing, Followand module has KR, DH, ER OH Unit 4 has nothing	O 1 2 3 4 5	Acetyl CoA Malonyl CoA	AT.	KS1 KS2 KS3 KS4 KS5 KS5 KS6 KS1 KS5 KS6 KS6 KS6 KS6 KS6 KS6 KS6 KS6 KS6	KR	DH	ER	ACP, ACP, ACP, ACP, ACP, ACP, ACP, ACP,	TE
F Unit has c , Following module has KR OH Unit has C , Following module has KR F Unit has (double boad connecting to ment unit), Following module has KR and DH Unit has nothing, Following module has KR, DH	O	Acetyl CoA Malonyl CoA	AT.	KS1 KS2 KS3 KS4 KS5 KS1 KS1 KS2 KS4 KS5 KS4 KS5 KS6 KS6 KS6	KR KR KR KR KR	DH	ER	ACP, ACP, ACP, ACP, ACP, ACP, ACP, ACP,	TE

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									_	_
1 .+ M.1 1 \ TE		Module	Starting Material	AT	KS	KR	DH	ER	ACP	TE
Last Module has TE		0	Acetyl CoA	AT.					ACP.	
		1	Malonyl CoA	AT,	KS۱				ACP,	
- +100-		2	Me Malonyl CA		KS2				ACP.	
Termination TE can hydrolyze:		3	Malonal LOA	AT ₃	K 53				ACP3	
15 200 11901		Ч	Malenyl L.A	A T4	KS.				ACPy	
	2 20	5	Maleral LA	AT _s	K٤s	K R _s	DHs	ERS	AcP≤	TEs
	~ 0 [∅]									
0 0 0Н	U									
or TE can macro lacto		10								
Canother -OH of	Hacks ending carbon	לועו								
1 2 9 5	7.4									
	\rightarrow									
0 0H	Csex FA	couth								
J	nates 4	for more i	afo)							
1	710.27									
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73	1									
	A had thate	a^								
	A pretend thate									
	001-3									
Drawing tips!			7.			SCOA=	COAS	= SAC	:0 = Co	A
Ocount # of Cs in -> SCOA leaves		,	1 3 S COA			(Same				
Ocount # of Cs in	starting materi	al	1			same	111/2)			
5014	7	T.								
TO S COA LEAVES		V								
		ما ما ال	1 2	7						
(3) F 11		T A		3						
E L like to draw out	all 2 Carbon			3						
② I like to drow out modules separate first		C	, / ,							
mousies services tist										
	2.5 Me Malo	ny CoA								
		_ -								
	Methyl a	_ -								
	Methyl a	closur to	Oth module							
	Methyl a	closur to								
	Methyl a	closur to	Oth module							
	Methyl a	closur to	oth module					.0		
	Methyl a	closur to	oth module			~	~ <u>`</u>	00		
3 Only -OH can be now	Methyl a	closur to	oth module	6	н он	(DH)		00		
	Methyl a	closur to	oth module	0	1	1.	. ether	000		
3 Only -OH can be now	Methyl a	closur to	oth module	6		1.		00		
(3) Only -OH can be not	Methyl (Es closed cleophile for 7	closur to	Oth module and module rolationization		possible	1.	nother ossible	000		
3 Only -OH can be now	Methyl (Es closed cleophile for 7	closur to	Oth module and module rolationization		possible	1.	nother ossible	00		
(3) Only -OH can be not	Methyl (Es closed cleophile for 7	closur to	Oth module and module relactionization	O Carbon	possible	1.	nother ossible	00		
(3) Only -OH can be not	Methyl (Es closed cleophile for 7	closer to e	Oth module and module rolactonization		possible	1.	nother ossible	00		
(3) Only -OH can be not	Methyl (Es closed cleophile for 7	closer to e	Oth module and module relactionization		possible	1.	nother ossible	00		
(3) Only -OH can be not	Methyl (Es closed cleophile for 7	closer to e	Oth module and module relactionization		possible	1.	nother ossible			
(3) Only -OH can be not	Methyl (Es closed cleophile for 7	closer to e	Oth module and module rolactorization Sold The sold		possible	1.	nother ossible	00		
(3) Only -OH can be not	Methyl (Es closed cleophile for 7	to e	Oth module and module relactionization		possible	1.	nother ossible	00		
(3) Only -OH can be not	Methyl (Es closed cleophile for 7	to e	Oth module and module rolactorization Sold The sold		possible	1.	nother ossible	000		